

Materials Laboratory Library
Selected New Acquisitions May 2009

HARDCOPY BOOKS, REPORTS, MEDIA

Geotechnical Engineering, Engineering Geology

Geotechnical Laboratory Measurements for Engineers. Wiley, 2009.
620.191 GERMAIN 2009

Pavements

NDT Technology for Quality Assurance of HMA Pavement Construction. Transportation Research Board, 2009. NCHRP Report no. 626.
625.7 N2131r 2009 no626

Materials, Testing, Inspection

Updated Test and Design Methods for Thermoplastic Drainage Pipe. Transportation Research Board, 2009. NCHRP Report no. 631.
625.7 N2131r 2009 no631
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_631.pdf

ELECTRONIC BOOKS, REPORTS & NEWSLETTERS

AASHTO Publications

Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals. American Association of State Highway and Transportation Officials, 2009. AASHTO LTS-5.
Available online to WSDOT staff through IHS Standards Expert (link through either the Library or Materials Laboratory Intranet site).

Interdisciplinary Interest

United States Government Printing Office Style Manual 2008. Government Printing Office, 2008.
<http://www.gpoaccess.gov/stylemanual/browse.html>

Geotechnical Engineering, Engineering Geology

Distribution of End Bearing and Tip Shear on Drilled Shafts Founded in Florida Limestone. Florida Dept. of Transportation, 2008.
http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_GT/FDOT_BD545_59_rpt.pdf

Geoengineer.org Newsletter, May 2009, Issue 53.
<http://www.geoengineer.org/geonews53.htm>

Geologic Map of the Camano 7.5-minute Quadrangle, Island County, Washington. Washington Division of Geology and Earth Resources, 2009. GM-68.
http://www.dnr.wa.gov/Publications/ger_gm68_geol_map_camano_24k.pdf

Geologic Map of the Juniper Beach 7.5-minute Quadrangle, Island and Snohomish Counties, Washington. Washington Division of Geology and Earth Resources, 2009. GM-70.
http://www.dnr.wa.gov/Publications/ger_gm70_geol_map_juniperbeach_24k.pdf

Geologic Map of the Langley and Western Part of the Tulalip 7.5-minute Quadrangles, Island County, Washington. Washington Division of Geology and Earth Resources, 2009. GM-69.
http://www.dnr.wa.gov/Publications/ger_gm69_geol_map_langley_24k.pdf

Geologic Map of the Maytown 7.5-minute Quadrangle, Thurston County, Washington. Washington Division of Geology and Earth Resources, 2009. GM-72.
http://www.dnr.wa.gov/Publications/ger_gm72_geol_map_maytown_24k.pdf

Geologic Map of the North Bend 7.5-minute Quadrangle, King County, Washington, with a Discussion of the Major Faults, Folds, and Basins in the Area. Washington Division of Geology and Earth Resources, 2009. GM-73.
http://www.dnr.wa.gov/Publications/ger_gm73_geol_map_northbend_24k.zip

Geologic Map of the Olsen Canyon Quadrangle, Lincoln and Stevens Counties, Washington. Washington Division of Geology and Earth Resources, 2009. GM-71.
http://www.dnr.wa.gov/Publications/ger_gm71_geol_map_olsencanyon_24k.pdf

Landslide Field Trip to Morton, Glenoma, and Randle, Lewis County, Washington. Washington Division of Geology and Earth Resources, 2009. Open File Report 2009-1.
http://www.dnr.wa.gov/Publications/ger_ofr2009-1_landslide_field_trip.pdf

Unstable Slopes Implementation and Effectiveness Monitoring: Pilot Project for State Lands: 2003 Report Covering Activities from Spring 2001 - Spring 2003. Washington State Dept. of Natural Resources, Land Management Division, [2003].
<http://www.digitalarchives.wa.gov/ViewRecord.aspx?RID=568A6B510677A71485F0A09784300809>

Pavements

Analysis of Load-Induced Strains in a Hot-Mix Asphalt Perpetual Pavement. Wisconsin Department of Transportation, 2009.
<http://on.dot.wi.gov/wisdotresearch/database/reports/fep-01-09strainsinhma.pdf>

Assessment of the I-5 Portland Cement Concrete Pavement in King County. Washington State Dept. of Transportation, 2009. WA-RD 682.1.
<http://www.wsdot.wa.gov/research/reports/fullreports/682.1.pdf>

Assessment of the I-5 Portland Cement Concrete Pavement in King County: Executive Summary. Washington State Dept. of Transportation, 2009. WA-RD 682.2.
<http://www.wsdot.wa.gov/research/reports/fullreports/682.2.pdf>

Best Practices for the Use of Siliceous River Gravel in Concrete Paving. Texas Transportation Institute, 2009.
<http://tti.tamu.edu/documents/0-4826-1.pdf>

Development of FWD Procedures Manual. New Jersey Dept. of Transportation, 2009.
<http://www.nj.gov/transportation/refdata/research/reports/FHWA-NJ-2009-005.pdf>

Development of Models to Estimate the Subgrade and Subbase Layers' Resilient Modulus from In-Situ Devices Test Results for Construction Control. Louisiana Transportation Research Center, 2008.
http://www.ltrc.lsu.edu/pdf/2009/fr_406_web.pdf

Development of Truck Equivalent Single-Axle Load (ESAL) Factors Based on Weigh-in-Motion Data for Pavement Design in Virginia. Virginia Transportation Research Council, 2009.
http://www.virginiadot.org/vtrc/main/online_reports/pdf/09-r18.pdf

Rough Roads Ahead: Fix Them Now or Pay for It Later. American Association of State Highway and Transportation Officials, 2009.

http://roughroads.transportation.org/RoughRoads_FullReport.pdf

Sustainable Asphalt Pavements: Technologies, Knowledge Gaps and Opportunities. University of Wisconsin, Madison, Modified Asphalt Research Center, 2009. [White Paper]

<http://www.uwmarc.org/files/MARC-Sustainable-Asphalt-Pavements-white-paper.pdf>

2009 NJDOT FWD Procedures Manual. New Jersey Dept. of Transportation, 2009.

<http://www.nj.gov/transportation/refdata/research/reports/FHWA-NJ-2009-006.pdf>

The Use of Recycled Concrete Aggregate in a Dense Graded Aggregate Base Course. New Jersey Dept. of Transportation, 2008.

<http://www.nj.gov/transportation/refdata/research/reports/FHWA-NJ-2008-002.pdf>

Materials, Testing, Inspection

Application of Imaging Technology to Improve the Laboratory and Field Compaction of HMA. Texas Transportation Institute [for] Texas Dept. of Transportation, 2009.

<http://tti.tamu.edu/documents/0-5261-1.pdf>

Development of the Crack Sealant Adhesion Test. Texas Transportation Institute [for] Texas Dept. of Transportation, 2009.

<http://tti.tamu.edu/documents/0-5457-2.pdf>

Glossary of Highway Quality Assurance Terms. Transportation Research Board, 2009. Circular E-C137,

<http://onlinepubs.trb.org/onlinepubs/circulars/ec137.pdf>

Improving Lab Compaction Specifications for Flexible Bases within the Texas DOT. Texas Transportation Institute [for] Texas Dept. of Transportation, 2009.

<http://tti.tamu.edu/documents/0-5135-3.pdf>

Laboratory and Horizontal Field Evaluations of Rapid Setting Patching Materials for [sic] Portland Cement Concrete: June 2007 Product Submissions. American Association of State Highway and Transportation Officials, National Transportation Product Evaluation Program, 2009. NTPEP Report no. 9008.1.

http://www.ntpep.org/ProfileCenter/Uploads/RSCP_9008.1_2009.pdf

Report on Polymer-modified Concrete. American Concrete Institute, 2009. 548.3R-09.

Available online to WSDOT staff. Go to <http://wwwi.wsdot.wa.gov/maintops/mats/ACILogon.htm>

Scroll down to 548.3R-09, and log in with user ID and password as instructed.

Statistical Assessment of Quality Assurance-Quality Control Data for Hot Mix Asphalt. Washington State Dept. of Transportation, 2009. WA-RD 686.1.

<http://www.wsdot.wa.gov/research/reports/fullreports/686.1.pdf>

SELECTED NEW TITLES ON CivilENGINEERINGnetBASE

<http://www.civilengineeringnetbase.com/>

Shallow Foundations: Bearing Capacity and Settlement (2nd ed., 2009)

http://www.civilengineeringnetbase.com/ejournals/books/book_summary/summary.asp?id=7504

Spatial Variation of Seismic Ground Motions.

http://www.civilengineeringnetbase.com/ejournals/books/book_summary/summary.asp?id=7520

WEBSITES OF INTEREST

Note: featured websites are also listed at <http://del.icio.us/WSDOT>

Q-Sensei <http://www.qsensei.com/>

Q-Sensei introduces a new way of making information accessible. Their goal is to provide advanced search tools for the vast amount of information available nowadays on the Internet, in books, research articles, blogs, news, or wikis. They currently provide access to the first several million scholarly articles. Q-Sensei's approach applies innovative search technologies to various heterogeneous data pools; users can easily browse through a data source as well as discover cross-references between individual records.